

Exploiting Real-Time Data with ArcGIS GeoEvent Processor for Server

Eric J. Rodenberg



GIS data

 Typically represents state at a specific moment in time: "historic", "current", or "future".





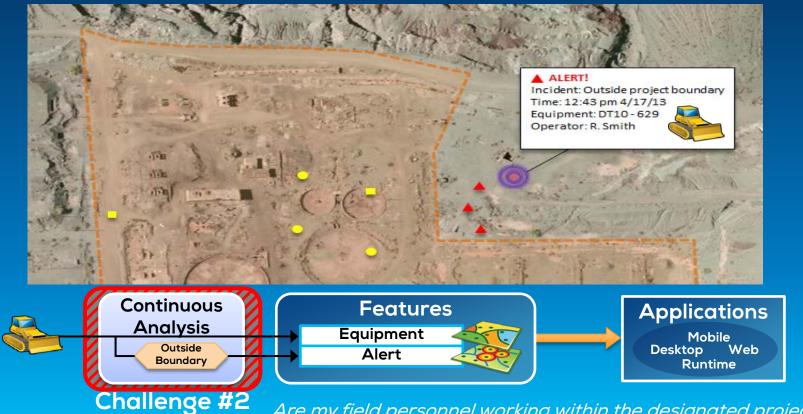
Real-time GIS data

...continuous stream of events flowing from sensors representing the latest state.





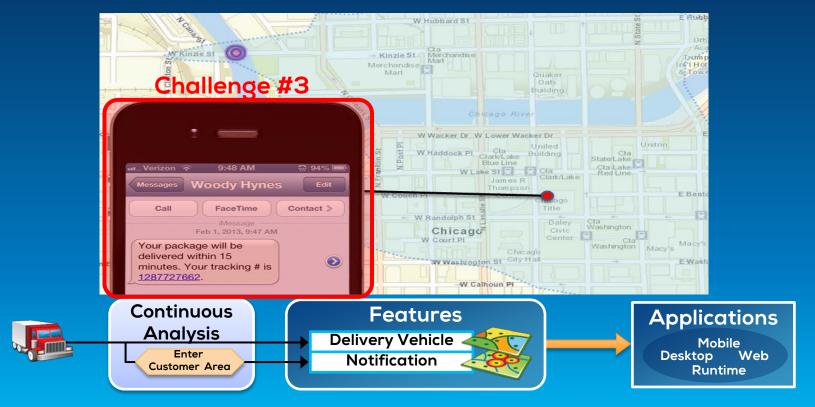
Analyzing real-time GIS data



...Are my field personnel working within the designated project area?



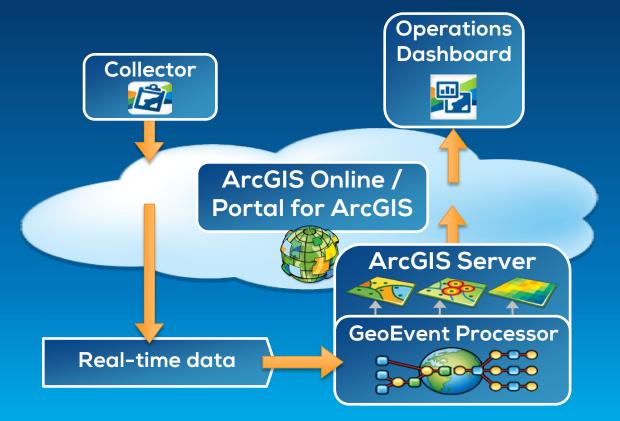
Analyzing real-time GIS data



... Tell customer when their delivery truck is 15 minutes away.

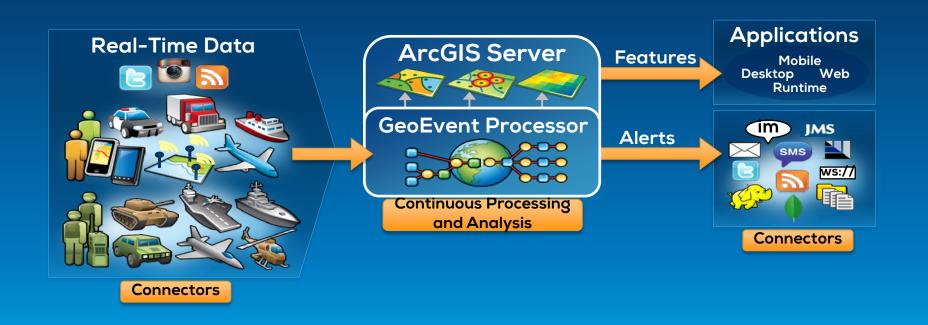


ArcGIS supports real-time GIS





ArcGIS GeoEvent Processor for Server



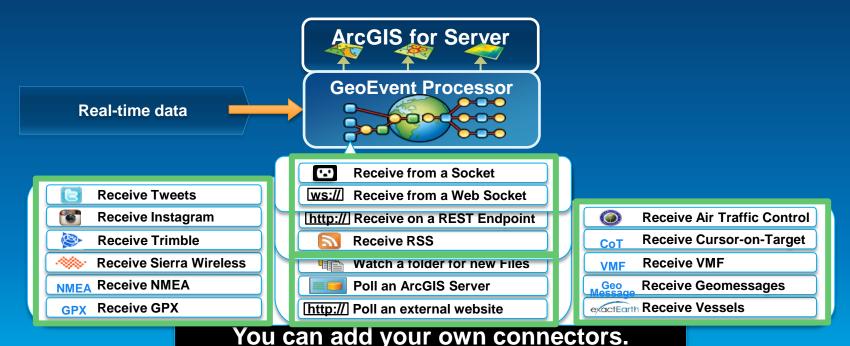
Working with realtime data

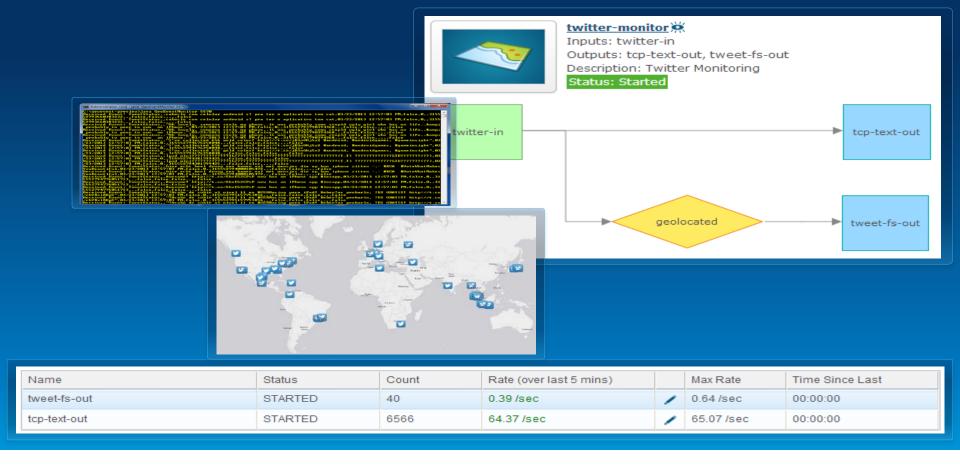




Receiving real-time data

Input connectors...



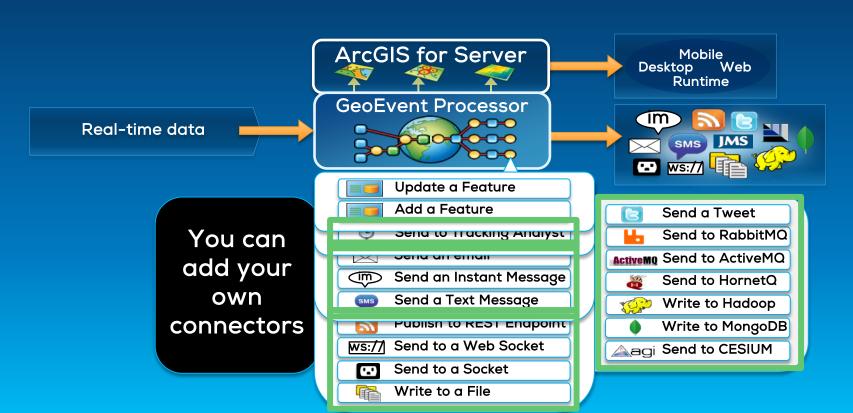


Demonstration | Twitter monitoring

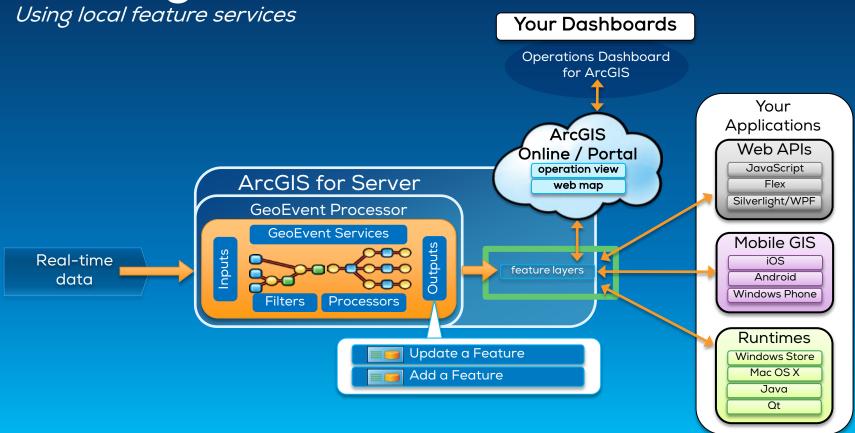


Sending real-time data

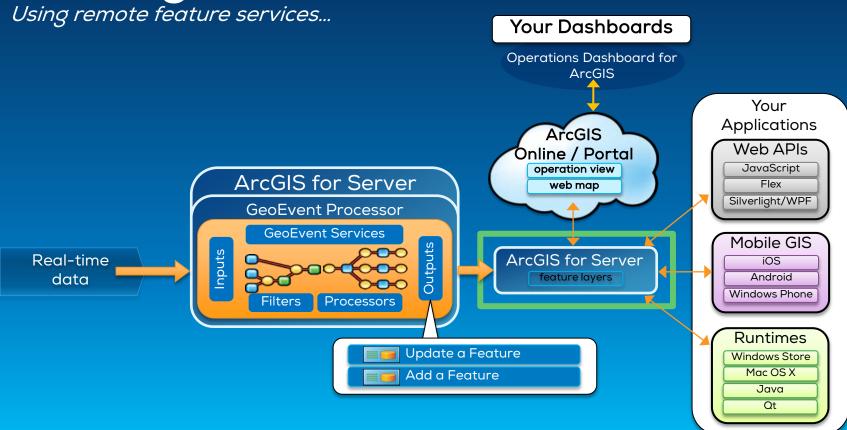
Output connectors...



Sending real-time data to features



Sending real-time data to features

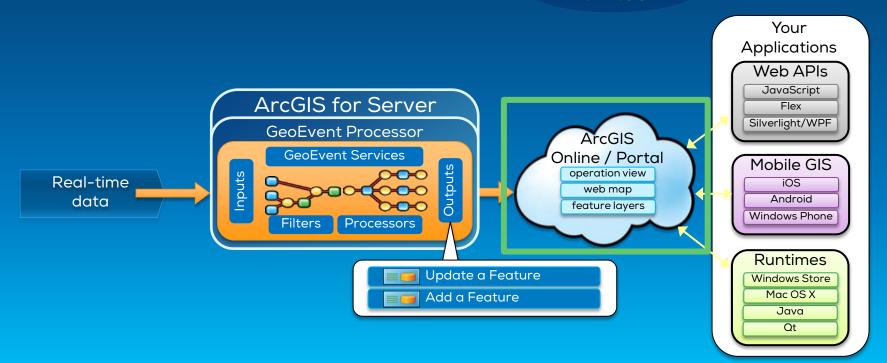


Sending real-time data to features

Using ArcGIS Online feature services...

Your Dashboards

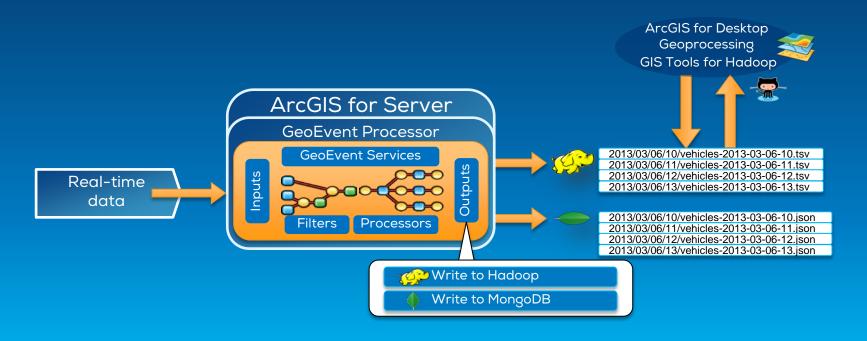
Operations Dashboard for ArcGIS



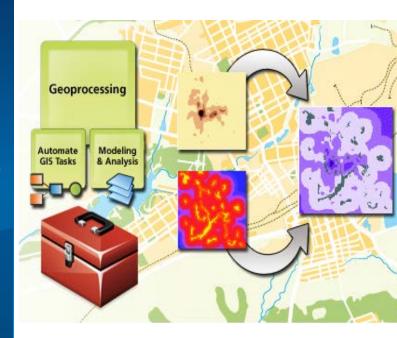


Sending real-time data to big data stores

Write to a Hadoop Distributed File System (HDFS) Write to a MongoDB Document Store



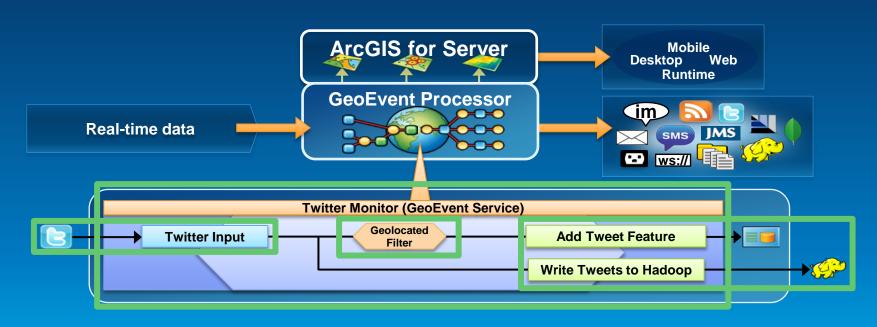
Performing continuous processing and analysis





Continuous processing and analysis

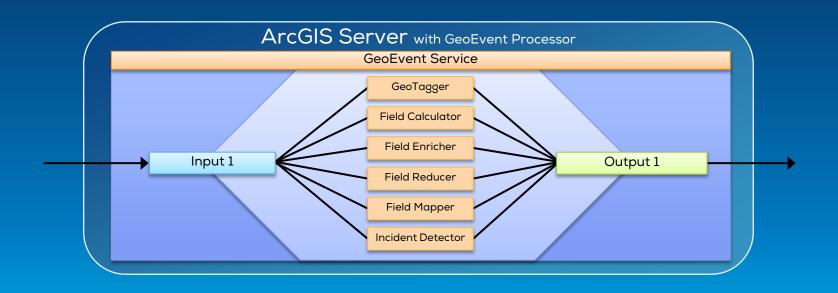
GeoEvent Services...

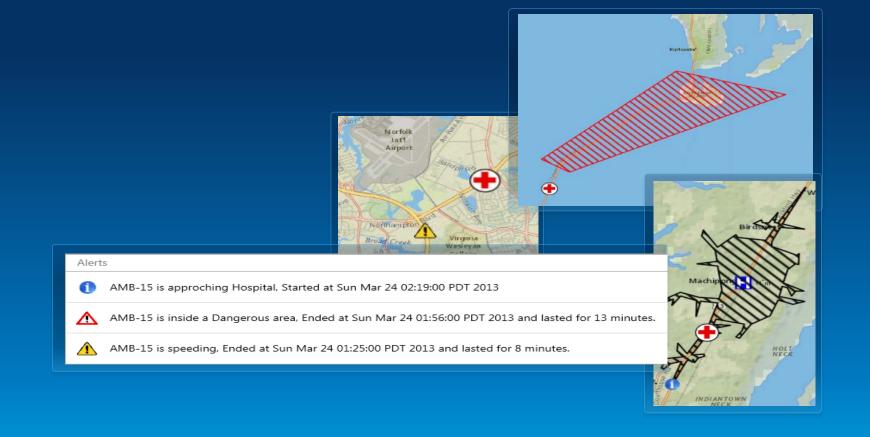




Continuous processing and analysis

Processors...





Demonstration | Vehicle monitoring

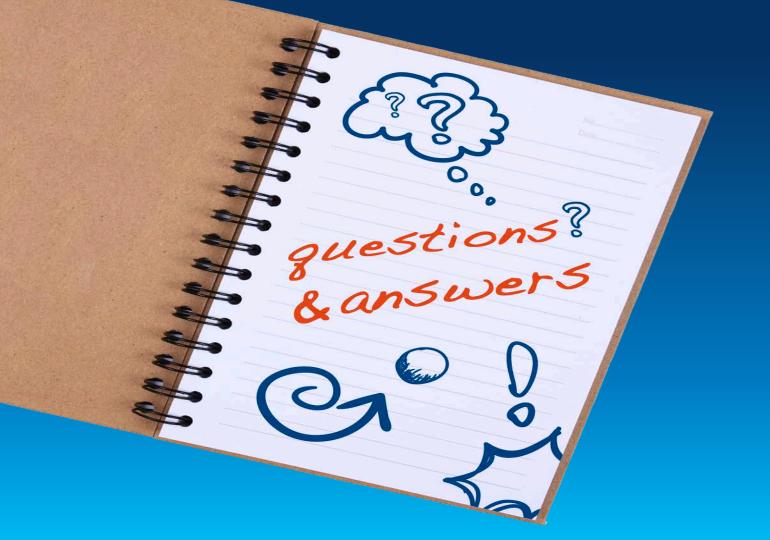
Wrap Up



Real-time GIS with GeoEvent Processor

Summary

- ArcGIS is a dynamic platform that enables realtime visualization, continuous analysis, and understanding of our world.
- GeoEvent Processor allows you to:
 - be alerted when interesting events occur
 - react and make smarter decisions faster
 - to know what is happening, as it happens
- Product Page
 - http://pro.arcgis.com/share/geoevent-processor





Understanding our world.